(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property **Organization** International Bureau





(43) International Publication Date 29 April 2004 (29.04.2004)

PCT

(10) International Publication Number WO 2004/034788 A3

(51) International Patent Classification7: 43/56

A01N 43/76,

(21) International Application Number:

PCT/EP2003/010898

(22) International Filing Date: 1 October 2003 (01.10.2003)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

02023436.5

19 October 2002 (19.10.2002)

(71) Applicant (for all designated States except US): BAYER CROPSCIENCE GMBH [DE/DE]; Brüningstrasse 50, 65929 Frankfurt (DE).

(72) Inventors; and

(75) Inventors/Applicants (for US only): HACKER, Erwin [DE/DE]; Margarethenstrasse 16, 65239 Hochheim (DE). BIERINGER, Hermann [DE/DE]; Eichenweg 26, 65817 Eppstein (DE). HUFF, Hans, Philipp [DE/DE]; Eberlestrasse 18, 65817 Eppstein (DE). WILLMS, Lothar [DE/DE]; Königsteiner Strasse 50, 65719 Hofheim (DE).

(81) Designated States (national): AE, AG, AL, AM, AU, AZ, BA, BB, BR, BY, BZ, CA, CN, CO, CR, CU, DM, DZ, EC, EG, GD, GE, HR, ID, IL, IN, IS, JP, KG, KP, KR, KZ, LC, LK, LR, LT, LV, MA, MD, MG, MK, MN, MX, NI, NO, NZ, OM, PG, PH, PL, RU, SC, SG, SY, TJ, TM, TN, TT. UA, US, UZ, VC, VN, YU, ZA.

(84) Designated States (regional): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, FR, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

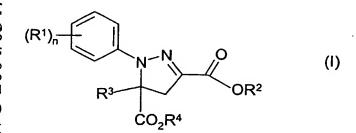
with international search report

before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments

(88) Date of publication of the international search report: 1 July 2004

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: COMBINATIONS OF ARYLOXYPHENOXYPROPIONATES AND SAFENERS AND THEIR USE FOR INCREAS-ING WEED CONTROL



(57) Abstract: Combinations of a compound of formula (I) or a salt thereof. In which R1, R2, R3, R4 and n are as defined in the description, and one or more aryloxyphenoxypropionate herbicides or agriculturally acceptable salts thereof are useful for increasing weed control.

A. CLASSIFICATION OF SUBJECT MATTER IPC 7 A01N43/76 A01N43/56

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols) IPC 7-A01N

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

CHEM ABS Data, WPI Data

Category •	Citation of document, with indication, where appropriate, of the relevant passages	Dalam and and
3-1,	where appropriate, or the relevant passages	Relevant to claim No.
х	WO 91/07874 A (HOECHST AG)	8-10
٨	13 June 1991 (1991–06–13)	
4	*the whole document*	1-7
	& EP 0 635 996 A	
	1 February 1995 (1995-02-01)	<u>}</u> .
	cited in the application	
x	EP 0 533 057 A (HOECHST AG)	8-10
	24 March 1993 (1993-03-24)	8-10
A	column 2, line 12 -column 4, line 20 examples 3-5	1–7
	~~~~	
		ļ

<ul> <li>'A' document defining the general state of the art which is not considered to be of particular relevance</li> <li>'E' earlier document but published on or after the International filling date</li> <li>'L' document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)</li> <li>'O' document referring to an oral disclosure, use, exhibition or other means</li> <li>'P' document published prior to the international filling date but later than the priority date claimed</li> </ul>	or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention  *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone  *Y* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.  *&* document member of the same patent family
Date of the actual completion of the international search	Date of mailing of the international search report
22 April 2004	03/05/2004
Name and mailing address of the ISA  European Patent Office, P.B. 5818 Patentlaan 2	Authorized officer
NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo ni, Fax: (+31-70) 340-3016	Fort, M

• Special categories of cited documents:



In Identification No PCT/EP 03/10898

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
WO 9107874 A	13-06-1991	DE 3939503 A1 AT 163124 T AU 653506 B2 AU 6886391 A CA 2069901 A1 CN 1052115 A ,B DE 59010806 D1 DK 635996 T3 WO 9107874 A1 EP 0635996 A1 ES 2114862 T3 GR 3026248 T3 HU 60593 A2 IL 96496 A JP 5503086 T JP 3088456 B2 KR 192713 B1 LT 711 A ,B LV 10359 A ,B US 5700758 A US 5703008 A ZA 9009591 A	06-06-1991 15-02-1998 06-10-1994 26-06-1991 31-05-1991 12-06-1991 19-03-1998 23-09-1998 13-06-1991 01-02-1995 16-06-1998 29-05-1998 29-12-1994 27-05-1993 18-09-2000 15-06-1999 31-01-1995 20-02-1995 23-12-1997 30-12-1997
EP 0533057 A	24-03-1993	DE 4135587 A1 AT 161389 T AU 660705 B2 AU 2353292 A CA 2078092 A1 CZ 9202805 A3 DE 59209086 D1 DK 533057 T3 EP 0533057 A1 ES 2112284 T3 GR 3025954 T3 HU 63299 A2 JP 5201807 A MX 9205188 A1 SK 280592 A3 RU 2105475 C1 US 5733847 A ZA 9206941 A	06-05-1993 15-01-1998 06-07-1995 18-03-1993 15-03-1993 16-06-1993 05-02-1998 31-08-1998 24-03-1993 01-04-1998 30-04-1998 30-08-1993 10-08-1993 10-08-1994 27-02-1998 31-03-1998 28-04-1993